

## ABSTRACT OF THE DISCLOSURE

A system for determining impulse events of an asset by sampling and digitizing a complex signal sensed by a transducer monitoring the asset into a digitized signal with a sampling device operatively coupled to the transducer, transforming the digitized signal into a plurality of maximum and minimum value pairs each pair having an associated location correlated to a relative movement of a moving member of the asset with a processor operatively coupled to the sampling device, and a monitor and/or a computerized condition monitor having the processor integrally formed therewith or operatively coupled thereto for comparing at least one of said plurality of maximum and minimum value pairs and its respective location to at least one known value for determining impulse events based on the comparison step for providing asset protection.